Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-14 (Canceled)

15. (Currently Amended) A method for temperature management in a network, wherein control devices exchange data via the network using transmitting/receiving units and the temperature is measured at at least one control device, the method comprising the acts of:

measuring the temperature at the transmitting/receiving unit of at least one control device;

switching off the transmitting/receiving unit as soon as the temperature at the transmitting/receiving unit of the <u>at least one</u> control device exceeds a predefined critical temperature T_{krit};

blocking wakeup requests put onto the network via the control devices as soon as the temperature at the transmitting/receiving unit of the <u>at least one</u> control device exceeds a predefined critical temperature T_{krit};

canceling the blocking of the wakeup requests as soon as the temperature of the transmitting/receiving unit has dropped to a temperature below the predefined critical temperature T_{krit} and below a predefined threshold value

temperature T_{th} within a predefined time period, wherein the threshold value

temperature T_{th} lies below the critical temperature T_{krit}; and

placing the at least one control device in an energy saving mode as soon as

the temperature of the transmitting/receiving unit exceeds the predefined critical

temperature T_{krit}.

16. (Currently Amended) The method as claimed in claim <u>24</u> ~~15~~, wherein

the at least one control device is placed in an energy saving mode in which ~~the~~ <u>a</u>

wakeup standby mode of the control device and the temperature measurement at

the transmitting/receiving unit of the at least one control device are ensured.

17. (Currently Amended) The method as claimed in claim <u>24</u> ~~15~~, wherein

when a predefined temperature <u>T_{inf}</u> ~~T_{krit}~~, which lies below the predefined critical

temperature T_{krit} and above ~~a~~ <u>the</u> predefined threshold ~~valve~~ <u>value</u> temperature

T_{th} is reached, a driver, external service points and the control devices are

informed about possible overheating and/or preventive protective measures are

taken.

18. (Previously Presented) The method as claimed in claim 17, wherein

the preventive protective measures include

activation of an automatic air conditioning system;

deactivation of heat sources;

activation of heat protection means; or

activation of an emergency operating function of a control device which can be used without a network functionality.

19. (Currently Amended) The method as claimed in claim 24 ~~15~~, wherein the at least one control device is placed in a standby mode, or switched off, if the temperature of the transmitting/receiving unit is above the critical temperature T_{krit} or equal to the critical temperature T_{krit} during a predefined time period.

20. (Currently Amended) The method as claimed in claim 24 ~~15~~, wherein the network is configured as an optical data bus network with an electric wakeup line, and the wakeup requests are blocked by connecting the wakeup line to ground.

21. (Currently Amended) A method for temperature management in a network, wherein control devices exchange data via the network using transmitting/receiving units and the temperature is measured at at least one control device, the method comprising the acts of:

measuring the temperature at the transmitting/receiving unit of at least one control device;

switching off the transmitting/receiving unit as soon as the temperature at the transmitting/receiving unit of the at least one control device exceeds a predefined critical temperature T_{krit};

blocking wakeup requests put onto the network via the control devices as soon as the temperature at the transmitting/receiving unit of the at least one control device exceeds a predefined critical temperature T_{krit};

canceling the blocking of the wakeup requests as soon as the temperature of the transmitting/receiving unit has dropped to a temperature below the predefined critical temperature T_{krit} and below a predefined threshold value temperature T_{th} within a predefined time period, wherein the threshold value temperature T_{th} lies below the critical temperature T_{krit}; and

storing a fault code for diagnostic purpose when the critical temperature T_{krit} is reached.

22. (Currently Amended) The method as claimed in claim 24 ~~15~~, wherein the critical temperature T_{krit} corresponds to the maximum operating temperature of the transmitting/receiving units.

23. (Currently Amended) The use of the method as claimed in claim <u>24</u> ~~15~~ in a data bus system using ring topology.

24. (New) The method as claimed in claim 15, further comprising the act of:

storing a fault code for diagnostic purpose when the critical temperature T_{krit} is reached.